AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Previously presented) A detachable sealing system for media-carrying parts comprising:

a seal adjacent to a wall of a media-carrying area, which seals the sealing system when the parts are braced against one another,

wherein the parts have mutually precisely complimentary sealing surfaces having cross-sections with a mutually complementary S-shaped profile, which sealing surfaces are directly pressed onto one another to form a clearance-free seal at a contact surface, and

wherein the contact surface between the sealing surfaces is limited to a narrow area directly adjacent to the media-carrying area, the contact surface having a width of 1/5,000 to 1/50 of a nominal width of the sealing system.

2. (Currently amended) A detachable sealing system for media-carrying parts comprising:

a seal adjacent to a wall of a media-carrying area, which seals the sealing system when the parts are braced against one another,

wherein the parts have mutually precisely complimentary sealing surfaces which are directly pressed onto one another to form a clearance-free seal at a contact surface,

wherein the contact surface between the sealing surfaces is limited to a narrow area directly adjacent to the media-carrying area, ~~The sealing system according to Claim 22, wherein the contact surface~~ and has a width of 1/5,000 to 1/50 of a nominal width of the sealing system,

wherein guide sections are provided on both parts, the guide sections situated transversely to and spaced from the sealing surfaces, and

wherein, for pre-centering of the two parts, the guide sections have at least one insertion bevel for bringing the two parts together, and a separating gap is formed between the guide sections for aligning the two parts before the sealing surfaces are pressed together,

the sealing surfaces having a mutual guidance transverse to the media area walls and being, when pressed together, accurately fitting radially centered to each other,

whereby the media-carrying area walls of both parts are truly aligned.

3. (Previously presented) The sealing system according to claim 1, wherein the contact surface is loaded with a specific sealing pressure, which is only in an elastic deformation range of a material of which the parts consist.

4. (Previously presented) The sealing system according to claim 1, wherein in addition to the sealing surfaces there is a mutual guidance transverse to the media area wall.

5. (Cancelled)

6. (Previously presented) The sealing system according to claim 1, wherein the sealing surfaces are designed in such a way that a specific sealing pressure decreases from an intersection line of a sealing gap between the sealing surfaces with the media-carrying area wall.

7. (Previously presented) The sealing system according to claim 1, wherein guide sections are provided on both parts, the guide sections situated transversely to and spaced from the sealing surfaces wherein, for pre-centering of the two parts, the guide sections have insertion bevels for bringing the two parts together, and a separating gap is formed between the guide sections for aligning the two parts before the sealing surfaces are pressed together.

8. (Previously presented) The sealing system according to claim 1, wherein the media-carrying area walls of both parts are truly aligned.

9. (Previously presented) The sealing system according to claim 1, wherein, adjacent to the media-carrying area wall, the sealing surface of one of the parts has a sealing lip projecting towards the other part and which is received in a corresponding half-recess on the sealing surface of the other part.

10. (Previously presented) The sealing system according to claim 3, wherein the sealing pressure is predetermined by a stop provided by a clamping device.

11. (Previously presented) The sealing system according to claim 1, further comprising stop faces between the parts, which form a clearance between the parts before bracing the parts together, whose width is sufficiently large that on bracing the sealing system up to the closing of the clearance, a sealing predetermined pressure is built up by the elastic deformation of the parts.

12. (Previously presented) The sealing system according to claim 1, further comprising an elastically deformable portion of the parts interposed between a clamping device and the sealing surfaces.

13. (Previously presented) The sealing system according to claim 1, wherein the sealing system is a joint connection between two media-carrying parts.

14. (Previously presented) The sealing system according to claim 1, wherein the parts are made from an equally hard material.

15. (Previously presented) A method for the manufacture of a sealing system according to claim 1, wherein the sealing surfaces are produced by profile precision turning by means of mutually complimentary profile cutting edges.

16. (Previously presented) The sealing system according to claim 1, provided for aseptic applications.

17. (Currently amended) A detachable sealing system for media-carrying parts comprising:

a seal adjacent to a wall of a media-carrying area, which seals the sealing system when the parts are braced against one another,

wherein the parts have mutually precisely complimentary sealing surfaces which are directly pressed onto one another to form a clearance-free seal at a contact surface,

wherein the contact surface between the sealing surfaces is limited to a narrow area directly adjacent to the media-carrying area, ~~The sealing system according to claim 2, wherein the contact surface~~ and has a width of between 0.01 and 1 mm,

wherein guide sections are provided on both parts, the guide sections situated transversely to and spaced from the sealing surfaces, and

wherein, for pre-centering of the two parts, the guide sections have at least one insertion bevel for bringing the two parts together, and a separating gap is formed between the guide sections for aligning the two parts before the sealing surfaces are pressed together,

the sealing surfaces having a mutual guidance transverse to the media area walls and being, when pressed together, accurately fitting radially centered to each other,

whereby the media-carrying area walls of both parts are truly aligned.

18. (Previously presented) The sealing system according to claim 3, wherein the specific sealing pressure is in the range of 20% to 80% of the yield point of the material forming the parts.

19. (Previously presented) The sealing system according to claim 6, wherein surface portions of the sealing surfaces are provided as reserve sealing surfaces adjacent to the contact surface, and which have a complimentary design.

20. (Previously presented) The sealing system according to claim 19, wherein an annular clearance with a size of 1/15,000 to 1/500 of a nominal width of the sealing system is provided between the reserve sealing surfaces.

21. (Previously presented) The sealing system according to claim 11, wherein the clearance with is 1/15,000 to 1/100 of a nominal width of the sealing system.

22-25. (Cancelled)

26. (Previously presented) A detachable sealing system for media-carrying parts comprising:

a seal adjacent to a wall of a media-carrying area, which seals the sealing system when the parts are braced against one another,

wherein the parts have mutually precisely complimentary sealing surfaces having cross-sections with a mutually complementary S-shaped profile, which sealing surfaces are directly pressed onto one another to form a clearance-free seal at a contact surface,

wherein the contact surface between the sealing surfaces is limited to a narrow area directly adjacent to the media-carrying area, the contact surface and having a width of 1/5,000 to 1/50 of a nominal width of the sealing system, and

wherein, for pre-centering of the two parts, the guide sections have at least one insertion bevel for bringing the two parts together, and a separating gap is formed between the guide sections for aligning the two parts before the sealing surfaces are pressed together,

the sealing surfaces having a mutual guidance transverse to the media area walls and being, when pressed together, accurately fitting radially centered to each other,

whereby the media-carrying area walls of both parts are truly aligned,

further comprising stop faces between the parts, which form a clearance between the parts before bracing the parts together, whose width is sufficiently large that on bracing the sealing system up to the closing of the clearance, a predetermined sealing pressure is built up by only plastic deformation of the parts.